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LEVEL 1 - 1 OF 2 PATENTS

5,134,042

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Jul. 28, 1992

Solid compositions for fuel cells, sensors and catalysts

INVENTOR: Madou, Marc J., Palo Alto, California
Otagawa, Takaaki, Fremont, California
Sher, Arden, Foster City, California

... [*12] selected from lanthanum, cerium, neodymium, praseodymium, or scandium, B is independently selected from strontium, calcium, barium or magnesium, Q is independently selected from nickel, cobalt, iron or manganese, and y is between about 0.0001 and 1, wherein the perovskite or perovskite-type structure has an average size and distribution of between about 50 and 200 Angstroms in diameter; and the composite layer of between about 25 and 1000 microns in thickness;

D1

said composite having multiple interfaces between:

...

LEVEL 1 - 2 OF 2 PATENTS

4,948,680

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Aug. 14, 1990

Solid compositions for fuel cell electrolytes

INVENTOR: Madou, Marc J., Palo Alto, California
Otagawa, Takaaki, Fremont, California
Sher, Arden, Foster City, California

... [*25] 1.5 and d is between 0.001 and less than or equal to 3,

wherein either the first electrode material (C) or second electrode material (A') comprises

A 1 - x B x QO 3

having a perovskite or perovskite-type structure as an electrode catalyst in combination with

A 1 - x B x Z

as a polycrystalline solid electrolyte wherein

A is independently selected from lanthanum, cerium, neodymium, praseodymium or scandium,

...

D2